

APET TRAY HIGH BARRIER LIDDING FILM 高阻隔 APET 盖膜

APET LIDDING FILM is a modified ethylene acrylate resin designed to function as a sealing layer for lidding applications. It is most often suggested to provide lockseal and peelable seals over a broad temperature range to a number of container materials including APET, CPET. APET LIDDING FILM is available in pellet form for use in conventional extrusion and coextrusion equipment designed to process polyethylene resins.

APET 盖膜是一种改性的乙烯丙烯酸酯树脂，用于封盖应用。通常使用在较宽的温度范围内为包括 APET、CPET 在内的多种 PET 容器材料提供热封和易揭热封性能。APET 盖膜设计用于聚乙烯树脂常规挤出和共挤工艺成型的托盒形式包装。

Applications

APET TRAY LIDDING FILM packing for fresh red meat, processed meat, fish and cheese products, etc. APET TRAY LIDDING FILM storage temperature between 0~4°C. APET TRAY LIDDING FILM can be used on lockseal and easy-peel two kinds of sealing performance, sometimes, it also offer the antifog functional for MAP application.

APET 托盒盖膜通常用于新鲜的红肉，加工肉制品，熟食，鱼，芝士等等，存储温度在 0~4°C。此类型盖膜从热封性能区分有正常热封和易撕易揭热封两种。从其他功能区分，我们还可以提供气调包装的防雾盖膜供选择使用。



Typical Value 标准性能指标

Properties 测试项目	Units 单位	Typical Values 参考值	Standard 测试标准
Thickness 厚度	mils	2.12±0.15	/
Heat Sealing Strength 热封强度	N	≥10	ASTM F2029
Tensile Strength 拉伸强度	N	MD	≥30
		TD	≥30
Elongation 断裂伸长率	%	MD	≥35
		TD	≥35
Barrier 透湿透氧率	g/m ² .day cc/m ² .day	MD	<5.8
		TD	<10

1. Typical value of thickness 厚度参考值=2.36±0.15 (mil).
2. Recommended Sealing temperature 建议热封温度 of 85°C.
3. Barrier Test, conditions 透氧测试条件: OTR = 23.0°C, 1 atm, 85% UR
WVTR 透湿测试条件= 40° C, 1 atm, 90% UR.

APET TRAY HIGH BARRIER SHEET 高阻隔透氧片材托盒

The oxygen high barrier sheet is blister packaging into an **uncovered tray**. The tray was filled with nitrogen (N₂) and carbon dioxide (CO₂), which is used to barrier the oxygen inside the box. Then the box is directly heat-sealed with a lidding film (conventional multilayer coextruded film or lamination film), compared with traditional tray which is not need to laminate one sealing layer. Because the box and the cover film are both O₂ barrier materials, the growth of microorganisms can be suppressed. The food inside the box can be kept fresh.

高阻隔吸塑片材拉伸成型后形成一个无盖托盘。托盒里充满了氮气和二氧化碳，用来阻隔外面的氧气进入盒内。然后用高阻隔盖膜(传统的多层共挤膜或者复合膜)直接与托盒热封，托盒不需要另外复合一层热封层。


因为托盒和盖膜都是高阻隔阻氧材料，可以抑制微生物的生长，盒子里的食物可以长久保持新鲜。

Besides, currently the materials used in the market are composite materials, which have no recycling value, complicated processes, and high costs. Our product made tray is made by one single material (PET) only which has high recycling value.

此外，目前市场上使用的托盒材料以复合材料为主，没有回收价值，工艺复杂，成本高。我们的高阻隔阻氧托盒是由单一材料（APET）制成，具有很高的回收价值。

Active-oxygen Transmission 氧气透过动态

Conventional multilayer sheet 传统复合片材 VS O₂ barrier APET sheet 高阻隔透氧片材



- ✦ Haze 雾度 ≈17
- ✦ OTR 透氧率 ≈2.5 cc/m²·day
- ✦ Low process yield 产能低
- ✦ Non-recyclable 不可回收

- ✦ Haze 雾度 =1.4
- ✦ OTR 透氧率 < 0.5 cc/m²·day
- ✦ High process yield 产能高
- ✦ Recyclable (Environmental friendly)可回收



Typical Value 标准性能指标

Properties	Units	Typical Values	Standard
测试项目	单位	参考值	测试标准
Thickness 厚度	mils	15.75±0.15	/
Friction Coefficient 摩擦系数	N	<=0.4	ASTM D1894
Tensile Strength 拉伸强度	N		
	MD	≥30	ASTM D638
	TD	≥30	ASTM D638
Elongation 断裂伸长率	%		
	MD	≥35	ASTM D638
	TD	≥35	ASTM D638
Barrier 透湿透氧率	g/m ² .day	<5.8	ASTM F1249
	cc/m ² .day	<10	ASTM D3985

1. Typical value of thickness 厚度参考值=2.36±0.15 (mil).
2. Recommended Sealing temperature of 推荐热封温度 85°C.
3. Barrier Test, conditions: 透氧条件 OTR = 23.0°C, 1 atm, 85% UR
WVTR 透湿条件= 40° C, 1 atm, 90% UR.

1. The technical features of the products defined herein are given as typical values, representing our best judgement on the work done. They are guides for the use of the quoted films values and are not for use as making specification. 这里定义的产品的技术特性被作为参考值，代表我们对所做产品的最佳判断。它们是作为使用者的技术标准的参考指南，不代表实际运用产品性能。
2. Users have to check-up that they are suitable with all the application as performance many vary with precessing conditions. Properties and performance are subject to change and we are keeping the right to modify the definition and properties of its products without prior notice. 用户必须检查他们是否适合他们本身的应用流程，因为性能会随着制造条件的不同而变化。产品的性能和功能随时可能发生变化，我们保留修改产品定义和性能的权利，恕不另行通知。
3. Abbreviations 缩写词: MD 纵向 – Machine direction; TD 横向 – Transverse direction.
4. Revised 修改日期: 22/2/2020

